higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NASIENRIGLYN

NASIONALE SERTIFIKAAT

MULTIDISSIPLINÊRE TEKENKANTOORPRAKTYK: ELEKTRIESE TEKENE

15 APRIL 2019

Hierdie nasienriglyn bestaan uit 6 bladsye.

Kopiereg voorbehou

OPSOMMING VAN PUNTETOEWYSING							
ELEMENT	**VRAAG**	**1**	**2**	**3**	**4**	**5**	**%**
Gebalanseerde uitleg en grootte		0	5	5	3	4	**17%**
Korrektheid		10	5	10	5	7	**37%**
Letterwerk		0	15	5	2	5	**27%**
Lynwerk en netheid		0	5	5	5	4	**19%**
TOTAAL:		**10**	**30**	**25**	**15**	**20**	**100%**

VRAAG 1: ALGEMENE TEORIE

1.1 Totale vereiste vloed:

$$\Phi = \frac{E_{av} \times A}{M \times CU \times LLD}$$

✓ ✓

$$= \frac{500 \times (7 \times 10)}{0{,}8 \times 0{,}54 \times 0{,}8}$$

✓ ✓

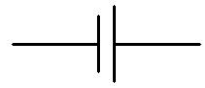
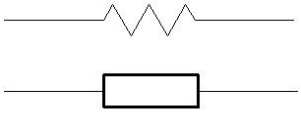
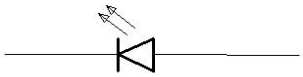
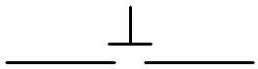
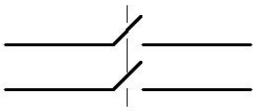
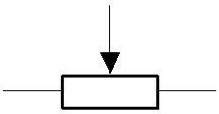
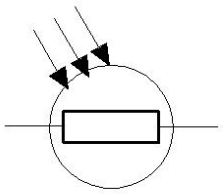
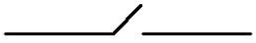
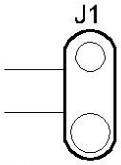
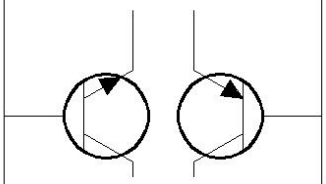
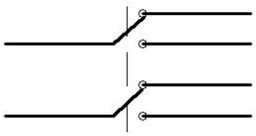
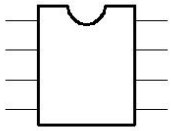
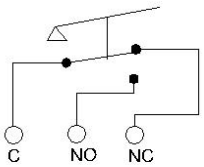
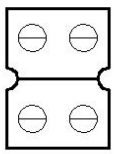
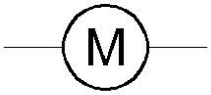
$$= 101\,273{,}148 \text{ lm} \quad ✓$$

(5)

1.2 1.2.1 16 mm²
1.2.2 6–10 mm²
1.2.3 4 mm²
1.2.4 2,5 tot 4 mm²
1.2.5 1,5 mm²

(5 x 1) (5)
[10]

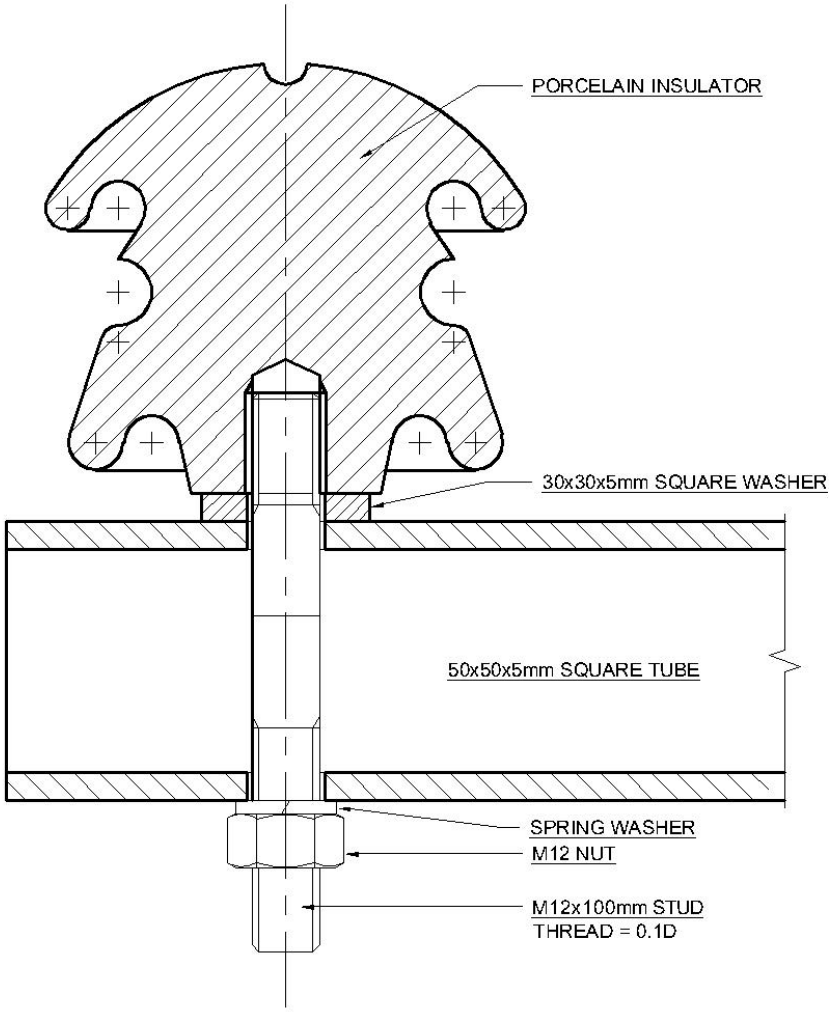
VRAAG 2: GRAFIESE SIMBOLE EN ELEKTRONIESE DIAGRAMME

 2.1.1 CELL 2.1.1 SEL	 2.1.2 RESISTOR 2.1.2 WEERSTAND	 2.1.3 LED 2.1.3 LED
 2.1.4 PUSH SWITCH 2.1.4 DRUKSKAKELAAR	 2.1.5 ROCKER SWITCH 2.1.5 SKAKELAAR	 2.1.6 PRESET RESISTOR 2.1.6 PRESET WEERST
 2.1.7 LDR 2.1.7 LAW	 2.1.8 TOGGLE SWITCH 2.1.8 SKAKELAAR	 2.1.9 BATTERY CLIP 2.1.9 BATTERY KNIP
 2.1.10 TRANSISTOR 2.1.10 TRANSISTOR	 2.1.11 SLIDE SWITCH 2.1.11 SKUIF SKAKELA	 2.1.11 INTEGRATED CIRCUIT 2.1.11 GEÏNTEGREERDE STROOMBAAN
 2.1.13 MICRO-SWITCH 2.1.13 MIKROSKAKELA	 2.1.14 CONNECTOR 2.1.14 AANSLUITING	 2.1.15 MOTOR 2.1.15 MOTOR

Gebalanseerde uitleg en grootte	5
Korrektheid	5
Letterwerk	15
Lynwerk en netheid	5

[30]

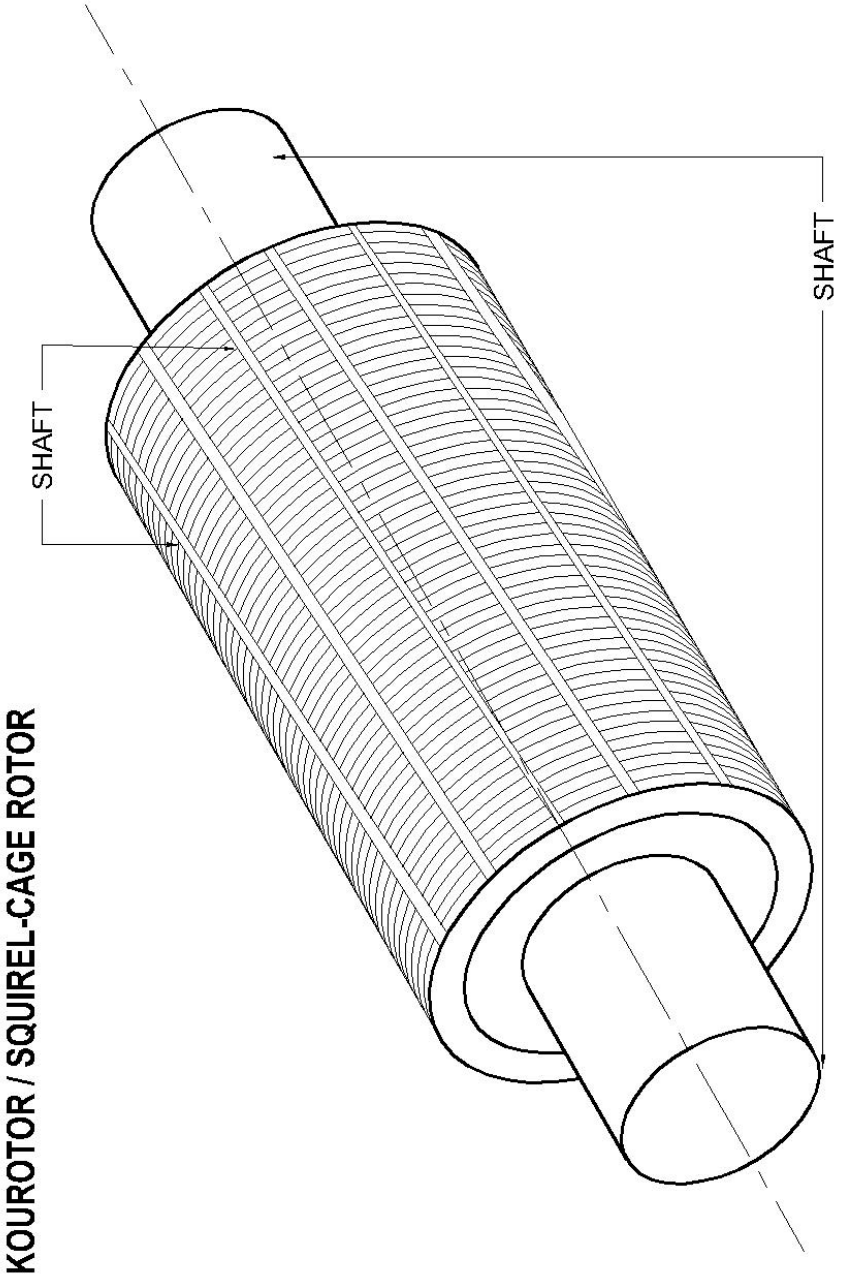
VRAAG 3: ONTWIKKELING EN VERSPREIDING VAN ELEKTRISITEIT



Gebalanseerde uitleg en grootte	5
Korrektheid	10
Letterwerk	5
Lynwerk en netheid	5

[25]

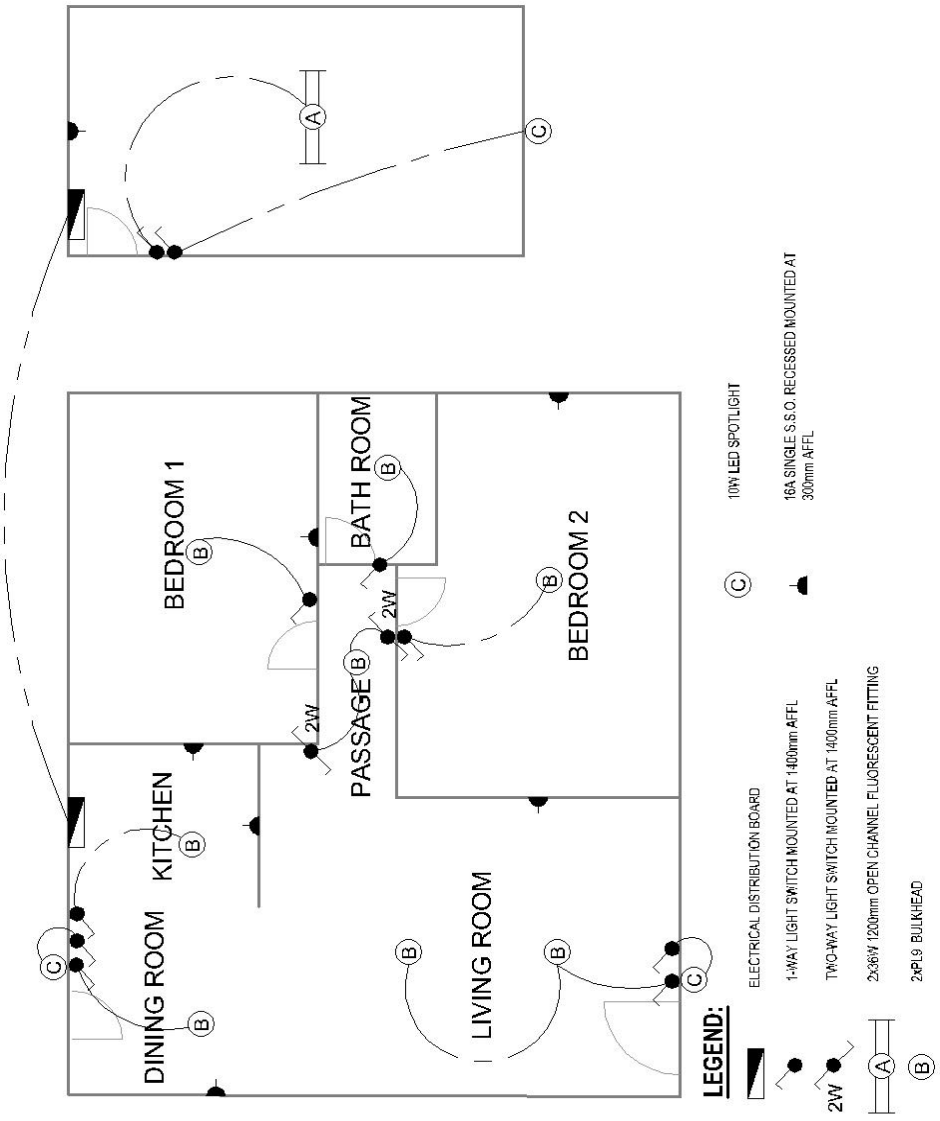
VRAAG 4: ELEKTRIESE MOTORS EN KONTROLETOESTELLE



Gebalanseerde uitleg en grootte	3
Korrektheid	5
Letterwerk	2
Lynwerk en netheid	5

[15]

VRAAG 5: BEDRADING VAN PERSELE



Gebalanseerde uitleg en grootte	4
Korrektheid	7
Letterwerk	5
Lynwerk en netheid	4

[20]

TOTAAL: 100

Kopiereg voorbehou